







## Christmas Story Is Told In Birth Of Jesus Christ

*"Peace on the earth, good will to men, from Heaven's all-gracious King."*

*"The world in solemn stillness lay to hear the angels sing. Still through the cloven skies they come, with peaceful wings unfurled, and still their heavenly music floats o'er all the weary world."*

Now it came to pass in those days, that a decree went forth from Caesar Augustus that a census of the whole world should be taken. This first census took place while Cyrenus was governor of Syria. And all were going, each to his own town, to register.

And Joseph also went from Galilee out of the town of Nazareth into Judea to the town of David, which is called Bethlehem, being of the family and house of David, to register together with Mary, his espoused wife, who was with child.

### There Was No Room For Him

And it came to pass while they were there, that the days for her to be delivered were fulfilled. And she brought forth her first born son, wrapped him in swaddling clothes and laid him in a manger because there was no room for them in the inn.

And there were shepherds in the same district living in the fields and keeping watch over their flocks by night. And behold, an angel of the Lord stood beside them and the glory of God shone about them and they feared exceedingly.

### A Savior Is Born

And the angel said to them: "Do not be afraid, for behold, I bring you good news of great joy which shall be for all the people, for today, in the town of David, a Savior has been born to you who is Christ the Lord. And this shall be a sign to you; you will find an infant wrapped in swaddling clothes and lying in a manger."

And suddenly there was with the angel a multitude of the heavenly host praising God and saying:

"Glory to God in the highest and on earth peace, good will toward men."

How much is a billion dollars? Well, it's a pile of \$1,000 bills—111 feet higher than the Washington Monument.

### STARS DESCEND TO HONOR FIRST CHRISTMAS TREE

According to legend, here's how the first Christmas tree was decorated. When Christ was born a group of stars looked down on an olive tree, a date palm and a pine tree that stood over the manger. Seeing that the pine had nothing to offer in His honor while the others gave fruit and dates, the stars descended from Heaven to rest on the boughs of the pine tree as an offering—and that was the first Christmas tree.

### Linde Develops New Torch Producing High Temperature

A new plasma arc torch developed and patented by the Linde Company, Division of Union Carbide Corporation, will produce temperatures up to 30,000 degrees, Fahrenheit. This is the highest controlled temperature ever used in industry.

The new torch makes possible a radically new method for fabricating shapes and applying coatings that will withstand temperature above 5,000 degrees, Fahrenheit. The new torch already has been used to produce experimental rocket and missile parts of pure tungsten or tungsten-coated graphite, high-density tungsten crucibles for metallurgical purposes and special parts for nuclear work. It also can be used as a wind tunnel tool to reproduce conditions met by a missile re-entering the earth's atmosphere at high speed.

## Christmas And New Year Holidays Are Given; The Bulletin Issuing Year's Final Edition

Christmas Day, Thursday, December 25; and New Year's Day, Thursday, January 1, 1959, will be holidays for all Y-12ers except those employees required for the continuous operation and protection of the plant.

As a result of the holiday schedule, The Bulletin is continuing its policy of the past several years of publishing this special Christmas edition of eight pages. This will be the final issue of The Bulletin this year, the next paper being scheduled for printing with the dateline of Wednesday, January 7, 1959.

The editor of The Bulletin wants to heartily thank the many friends, correspondents, contributors and others in the Y-12 Plant who have cooperated so kindly and completely during this year. Without this help and cooperation—production of this, or any other, publication would be a much more difficult job.

So—thanks again—and from this corner to one and all—a Most Merry Christmas and a Healthy and Happy New Year.

See you next year!

## Y-12 Safety Record For Year Is Good

**Only 13 Injuries  
Reported In 11 Months**

Although the unfortunate radiation exposure cases of eight Y-12ers last spring cut heavily into the plant safety record, indications still point to a banner year from the standpoint of lost time accidents. Through November 30 of this year the Y-12 Plant had registered only 13 disabling injuries, including the eight exposure cases.

At the same time last year there were 11 lost time accidents on the record with the entire 1957 record being 14.

The 1958 frequency rate, number of disabling injuries per 1,000,000 hours of plant operations, was 1.22 at the end of November. For the entire year 1957 the rate was 1.07. Days of work lost for the first 11 months of this year were 3,677 as compared to 1,406 for all last year.

In off-the-job accidents Y-12ers are not faring so well this year. Through November there were 68 such cases listed, including three fatalities. In all of 1957 there were 63 off-the-job accidents causing loss of time with two fatalities.

### Electromet Will Produce Line Of Metal Chemicals

The Electro Metallurgical Company, Division of Union Carbide Corporation, has announced it will produce a broad line of metal chemicals. The company will emphasize chemical derivatives of the less common metals—compounds that have been relatively little explored up to this time.

Manufacturing processes already have been established for producing some of these new chemical compounds in volume and high purity. The new product line now includes anhydrous metal chlorides and oxychlorides, which are intended as intermediates for the production of other metal derivatives. At present these compounds find their primary use as catalytic agents in the rubber and plastics industry. Electromet also has begun testing other groups of metal chemicals for which it is planning pilot production.

### Sterling Forest Project Sets Walls Of Stainless Steel

Stainless steel curtain walls now are being installed on buildings of the Union Carbide Corporation Sterling Forest, N.Y., project. The buildings under construction that will have the stainless steel walls as the main administration and research building, the ores and minerals laboratory and a power and utilities building. Construction of the project is expected to be approximately 50 per cent complete by the end of 1958.

### SAFETY SCOREBOARD

**The Y-12 Plant Has  
Operated  
35 Days Or  
1,056,000 Man Hours  
(Unofficial Estimate)  
Without A Disabling  
Injury  
Through December 18  
Phone 7755  
For Daily Report  
On Accident-Free Hours**

## W-2 Forms Going Out Before January 9

Those all-important W-2 Forms giving information on wages and salary earned by Y-12ers during 1958 on which to base their income tax returns, will be in the hands of all Y-12ers by January 9, 1959. Another important form, the Union Carbide Nuclear Company Form 23, giving figures on employees' disability absence and pay, also will be included with the W-2 Forms.

These forms will be mailed to all monthly salaried employees during the week of January 5. They will be attached to pay checks or hourly and weekly paid employees.

The federal income tax forms will be mailed to all taxpayers early in January, it has been reported by the Internal Revenue Service at Knoxville. The tax forms and payment must be submitted before April 15.

## Boost In Applications For School Aid Seen

**Y-12 Hourly Employees  
Now Eligible In Plan**

With benefits of the Union Carbide Nuclear Company Educational Assistance Plan extended to cover hourly paid employees as well as salaried employees, a sharp upswing in applications for aid under the plan for Winter Quarter enrollment is expected. Most Winter Term classes will hold registration and class openings shortly after January 1.

Benefits under the Educational Assistance Plan are 50 per cent of the cost of tuition, books, laboratory fees and supplies.

### Approval Is Required

Applicants for the Educational Assistance Plan benefits must first obtain approval for their application from their supervisor.

Courses selected by applicants must be such as will help them on their present jobs or pertain to other work carried on at the installation. Most of the applicants who are approved will attend either the Night School undergraduate courses or graduate courses offered by the University of Tennessee. Some will take class work offered by the Oak Ridge Adult Education Program and others will take correspondence courses.

### Pearson Has Information

Any Y-12er eligible for benefits under the Educational Assistance Plan wanting to apply for this aid or seeking further information on available subjects or other data may obtain it from Ralph Pearson, of the Training Department. He may be reached in Bldg. 9704-2, plant telephone 7751.



## Superintendent Murray Extends Best Wishes For Holiday Season

It is again my pleasure to send to each and every employee in the Y-12 Plant my best wishes for a Merry Christmas and a Happy New Year. As the year nears its end, we in the Y-12 Plant have



John P. Murray

many things to be thankful for and to look back on with pride. Despite one unfortunate incident, our safety record for the year 1958 is superlative, including that one fine period of more

than 5,000,000 hours of plant operations without a disabling injury. This record is the best in the Union Carbide Nuclear Company and can be equalled—and even bettered—with the same cooperation and joint effort that brought us this honor.

For this achievement and others gained during the year I want to express my appreciation to everyone for making them possible—and again extend my best wishes to you and your families for a Merry Christmas and a Happy, Safe and Prosperous New Year.

John P. Murray  
Y-12 Plant Superintendent





TURNING OUT TO EXTEND BEST WISHES TO C. R. CAMPBELL, who will retire December 31 is this large group of carpenters and other employees in Buildings and Grounds. Campbell is second from right in front row. To his left is his immediate foreman, L. K. Flynn, and at his right is a fellow carpenter and "buddy" Bruce Eisenhower.

## Y-12 Carpenter C. R. Campbell Will Retire December 31; Has Interesting Background

**Fellow Employees Give Him Power Saw As Gift; Ancestors Were Among Founders Of Knoxville**

A Y-12 carpenter who dates his forefathers back to the days of the founding of Knoxville will retire on December 31. He is Carlos Campbell, of the Buildings and Grounds Department, who has worked for two times in the Y-12 Plant. He first came to work in Y-12 on January 1, 1945, and after a reduction in force on August 24, 1946, he returned to work under Carbide on August 1, 1950.

## Pyrofax Company Storing Propane Gas Underground

The Pyrofax Gas Company, Division of Union Carbide Corporation, now is storing 4,000,000 gallons of gas underground at Hattiesburg, Miss. The gas, presently stored in subterranean salt beds, will serve Pyrofax customers in Virginia, North and South Carolina, Georgia and Florida during peak periods. The beds have been "washed out" with a brine solution, forming cavities capable of storing propane for an indefinite period. It marks the first time Pyrofax has had such a large supply of propane in one central location.

## American Industry Strides Forward In Cutting Deaths

American industry has made great strides in safety during the past 10 years. National Safety Council statistics show that while the number of industrial workers, excluding agriculture and transportation, increased 11.8 per cent from 1948 through 1957, the occupational death rate dropped 21.7 per cent. From 1957 to 1958, the rate of disabling injuries went down 19.5 per cent.

The sale of occupational safety materials jumped 83 per cent in the 10 years the occupational death rate decreased.

## CAROL SINGING CHANGES AS CENTURIES PASS

The custom of singing Christmas carols dates back to ancient times when waifs and minstrels sang them in the streets. The Angel chorus may have sung them at the first Christmas almost 2,000 years ago.

The first true Christmas carols, which spread to many European countries, originated in Italy during the 13th Century. These carols, with their folksong-like quality and childlike simplicity, gave way in popularity to more dignified and solemn Christmas hymns in the 18th Century. With the 19th Century came the writing of the beautiful "Silent Night, Holy Night" and other impressive Christmas music.

He will be the 15th Y-12er to retire this year and the 47th since Carbide took over Y-12 operations in 1947.

At brief ceremonies last week before his retirement, Campbell was highly praised by his supervision as being a highly capable workman as well as a cooperative employee in the Buildings and Grounds Department, in which he was employed.

His fellow employees presented him with an electric power saw as a "going-away" present, with the presentation being made by L. K. Flynn, his foreman. Flynn and other departmental foremen highly praised Campbell for his work.

**Plans To Stay At Home**  
Campbell and his wife, Mrs. Elizabeth Campbell, and daughter, Carolyn, live at 2521 Sanderson Road, Knox County. That is where he plans to live in the future.

Delving into Campbell's background reveals many interesting facts.

He was born in the Concord community in Knox County. He attended elementary school at the old Boyd's School there and later went to Farragut High School.

Later, wanting to extend his training he took a correspondence course from the Chicago Technological School and also from the State Vocational school in Florida.

Campbell is one of six children, all of whom are now living, one of which is a twin sister.

### Ancestors From Scotland

His great-grandfather came to the United States from Scotland. The great-grandfather and his family came on to what now is known as Knoxville — then known as White's Mill. They lived in the fort with the Whites for some time, the two families being related. Both were from the Orgiles, of Scotland.

The proposed new Knoxville auditorium will be built on the exact spot of ground where the original Fort White stood — and it will carry the name of White.

The Campbells later moved westward and built a fort at what now is known as Campbell's Station, 20 miles west of Knoxville on U.S. Highways No. 70-11. These



Y-12 RETIREE C. R. Campbell, second from left, is praised by Supervision in Buildings and Grounds for his conscientious and capable work. From left are Assistant General Foreman R. L. Martin, Foreman L. K. Flynn and General Foreman Howard Horne. Campbell is holding the handsome power saw given him as a retirement gift by his fellow carpenters.

were the two first white settlements in Tennessee.

### Stay "Very Pleasant"

The retiring Y-12er recalls his stay in the plant as "very pleasant throughout." He chose the carpentry trade early in life — and "and stuck through it."

Before coming to Y-12 and during his interim between employment here he had worked with the Tennessee Valley Authority on the Ft. Loudoun Dam project, the Aluminum Co. of America, the former Roane-Anderson Co., of Oak Ridge, and the H. K. Ferguson Co.

### Teaches Apprentices

Showing his interest and enthusiasm in his chosen trade, Campbell began teaching evening classes for carpenter apprentices employed by the Knoxville City Board of Education in 1948—a post he still holds.

In addition to his daughter, Carolyn, a student at Bearden High School, Campbell also has two other daughters, Mrs. Thomas S. Williams, La Puente, Cal., and Mrs. J. F. Speery, of Nashville. The mother of the first two daughters was Mrs. Gussie Irene Alexander Campbell, who died April 14, 1935. He married the former Miss Mattie Elizabeth Farmer on November 9, 1940, who is the mother of Miss Carolyn Campbell.

### GHANA SURVEY PLANNED

Kaiser Engineers, of California, will make a technical survey of the proposed Volta River hydroelectric and aluminum project for the Ghana government. Details of the project still have not been definitely set.

## REPORTER-ARTIST KOBISK DREW BULLETIN BORDERS

How do you readers like the nifty border decorations of strings of holly and candles at the top of each page of this edition of The Bulletin?

This art work was done on a volunteer basis by Jeri Kobisk, The Bulletin reporter in the Special Projects of the Technical Division, who has proved herself a capable artist as well as an entertaining writer.

The only kick about it is—no mistletoe.

## UCC Will Purchase Amoco's Texas Plant

**Brownsville Facilities Said Advantageous**

Morse G. Dial, Chairman of the Board, Union Carbide Corporation, has announced that the Corporation has exercised its option to purchase from Amoco Chemicals Corporation the utilizable facilities which remain on the 306-acre tract at Brownsville, Tex., site of the processing plant formerly operated by Amoco. The option also includes the 42-mile Westaco-Brownsville natural gas pipeline. Union Carbide is negotiating a long-term lease with the Brownsville Navigation District (Port of Brownsville) for the Brownsville tract.

### Two Companies Will Operate

Engineering studies will be made for additions and revisions at the site. Utilization of these facilities will be deferred for this reason and also will depend upon completion of satisfactory arrangements for fuel gas and raw material supply. Operations at Brownsville will be carried on by Union Carbide Chemicals Company and Union Carbide Olefins Company, both divisions of Union Carbide Corporation.

The project was originally designed and built by Carthage Hydrocol, Inc. to produce synthetic gasoline, other petroleum fractions and co-product chemicals from natural gas by the Fischer-Tropsch process. It was acquired by Amoco Chemicals Corporation in 1954 and operated by Amoco until last fall. According to Mr. Dial, Union Carbide is not contemplating the production of either synthetic gasoline or petroleum products, nor does it intend to produce chemicals by the Fischer-Tropsch process.

### Plant Well Located

The Brownsville plant is particularly well located with respect to both raw materials and market. Natural gas is available by 16-inch pipeline. The plant and the storage terminals are on deep water and, as a consequence, manufactured products can be shipped up the Eastern Seaboard by tanker and, by barge, up the Mississippi and Ohio Rivers.

The chemical processing operation at Brownsville will be the third chemical facility to be located in Texas by Union Carbide. The company started its first Texas operation in Texas City in 1941 and a second at Seadrift in 1954.

Renovation and expansion of the Brownsville unit would require maintenance and construction workers. It is anticipated that, when in operation, several hundred people may be employed.

### U.S. CAN GROW COFFEE

The United States Department of Agriculture has found that coffee trees can be grown in a limited area south of Miami, Fla., and in protected places along the Pacific coast in Southern California. Occasional crops have been harvested, but commercial production has not been seriously considered.

## Y-12 Credit Union Nominations Made

**Annual Meeting Is Set Thursday, January 15**



C. V. Ketron  
President



W. R. McGill  
Vice President



Lorena Causey  
Treasurer



Paul Blakely  
Secretary

All members of the Y-12 Employees Credit Union have been urged to make plans now to attend the annual membership meeting of the organization on Thursday night, January 15, by C. V. Ketron, Oak Ridge National Laboratory employee in the Y-12 Plant Area and president of the Credit Union. The meeting will be at 7:30 o'clock in the Green Room of the Ridge Recreation Hall.

"This is the only open membership meeting of the Credit Union in the year," President Ketron pointed out, "when board of directors members, committee members and officers are elected." The annual dividend also is declared at this meeting by a vote of the members, which makes it important to them to attend the meeting.

### Committee Submits Slate

A slate of candidates for membership on the board of directors, the credit committee and the supervisory committee has been prepared by a nominating committee headed by J. Clyde Bowles, Mechanical Inspection, as chairman. The new board of directors named at the January 15 meeting will elect officers for the year.

Present officers in addition to President Ketron are W. R. McGill, Fire Department, vice president; J. P. Blakely, ORNL employee in Y-12, secretary; and Mrs. Lorena Causey, treasurer.

### Three Directors Holdovers

Of the present board of directors of seven members, Mrs. Causey, President Ketron and H. R. Gwinn, Special Testing and chairman of the Credit Union Educational Committee, are holdover members with one more year to serve of their two-year terms.

In the slate submitted by the nominating committee candidates proposed for the Board are McGill, Blakely, A. J. Fisher, Security and John E. Perry, Development Operations.

W. E. Davis, Security, is the lone holdover member on the Credit Committee, which passes on all loans made by the Credit Union. On the nominating committee slate are M. M. Dickens, Production Control; T. J. Stephens, Plant Records; E. G. Richardson, Maintenance Planning; S. C. Simmons, General Machine Shop; Paul Griffin, ORNL; W. G. Moisson, Project Engineering; Arthur Sands, Chemical; and C. E. Harris, Research Services.

On the Supervisory Committee, which checks the financial standing of the organization, C. M. West, Health Physics, is a holdover member. Also nominated to



# The Bulletin

Published Weekly By And For  
Y-12 Employees Of  
UNION CARBIDE  
NUCLEAR COMPANY  
Division Of  
Union Carbide Corporation

GEORGE W. DOBBS . . . Editor

OFFICE  
Post Office Box Y  
Oak Ridge, Tenn.  
Bldg. 9704-2 Room 228  
Telephone 7751

## Y-12 Credit Union Nominations Made

Continued from Page 3

committee membership are A. L. Conte, Project Engineering; and Earl Goode, Cashier and Travel Department. John Lay, SS Control; and Phyllis Johnson, Tabulation Services; are retiring members.

### 1958 Dividend Five Per Cent

The annual Credit Union dividend, which last year was five per cent, is voted on by the membership. The board of directors makes a recommendation on the dividend in its report.

The nominating committee, in addition to Chairman Bowles, was composed of W. O. Elam, Fire and Guard Department; Austin Read, Safety; W. M. Hopkins, Civil and Architectural Engineering; and W. K. Prater, ORNL.



Get well wishes are extended the following Y-12 employees who were patients last week in the Oak Ridge Hospital:

R. R. Stokes, Forming; L. M. Thompson, Research Services; R. H. Bradshaw, H. H. Law and T. M. Akers, General Machine Shop; S. S. Sparks, Mechanical Maintenance; A. J. Blay, TW Shop; Jack Neal and R. L. Robertson, Sunflower Shop; J. H. Oldham, Tool Grinding and Machine Maintenance; B. L. Hammer, Mechanical Engineering; J. E. Campbell, Industrial Relations Administration; F. R. Harden, Product Processing.

## Rides Wanted, Offered

Ride wanted or will join car pool from South Clinton to East Portal, straight day. R. H. Freeman, plant phone 7-8445; home phone, Clinton 1059-J.

One rider wanted from Burlington or Park City section, East Knoxville, via Central St. and the Knoxville-Clinton Pike to any portal, straight day. E. R. Watkins, plant phone 7413, home phone Knoxville 3-0955.

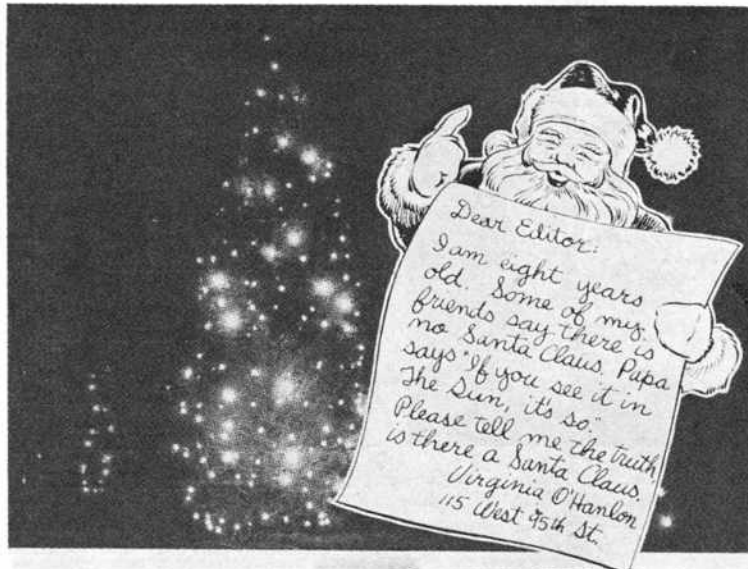
Ride wanted from Newkirk Lane, Oak Ridge, to North Portal, straight day. Dot Harris, plant phone 7-8361, home phone, Oak Ridge, 5-5203.

Ride wanted or will join car pool from Forest Hills Village to North Portal, straight day. Frank Blackett, plant phone 7064.

Ride wanted from Halls Cross Road to any portal, D Shift. G. R. Owen, plant phone 7573.



## Sure There Is A Santa Claus, Virginia; Inspirational Editorial Is Repeated Here



Several years ago *The Bulletin* printed the world-renowned "Is There A Santa Claus?" letter from an eight-year old girl in New York to *The New York Sun*. It has been circulated throughout the world—and in answer to several requests it is being repeated in this Christmas edition of *The Bulletin*.

"Is There A Santa Claus?" was the question asked in a letter back in September, 1897, by Virginia O'Hanlon, daughter of Dr. and Mrs. Philip O'Hanlon, of New York City, to the editor of *The New York Sun*. Her letter was received by Edward P. Mitchell, who turned it over to Francis P. Church, his assistant, to answer. The product of the fine nature, mellow wisdom and sound craftsmanship by Mr. Church was the editorial, "Is There a Santa Claus?" In view of the wide popularity and beauty of the editorial, *The Bulletin* is happy to repeat it.



Now, this little gent on the right isn't really Santa Claus, he is just the old Colyum Conductor posing as such and waving a Merry Christmas and Happy New Year to all you folks down the line who have made this column successful. So, let's start out with good reports from—

### TECHNICAL

Now here is the Metallurgical Development outfit extending sympathy to Claude C. Wilson, whose mother died December 16, in Cleveland, Tenn. She was 88 years old . . . Also to C. D. Robinson, whose mother-in-law died December 10 . . . Vacationers include R. B. Burditt and P. E. Wilkinson, but they didn't leave forwarding addresses.

Special Projects infiltrated a recent Knoxville Boat Club party recently with Jay Fielden being presented with a fur-lined thunderbug in honor of his election as one of two vice commodores—the group also collected a lot of toys and food staples for needy Oak Ridge families . . . Also with Jeri Kobish, our scribe in that outfit, doing a nice job of reporting as well as artistry—see elsewhere in *The Bulletin*—Special Projects says:

### HAPPY HOLIDAY SEASON

Mechanical Engineering reports lots of Christmas vacationers with lots of activity, eggnog consuming and other types of merry-making . . . The Paul Boyers are spending the week in Pottsville, Pa., with both sets of parents . . . Wimpy Helton is enjoying some good old-fashioned rabbit hunting with his dog, Elvis (with guitar, no doubt) . . . Don Rose and family moved recently to enjoy the holidays in their new home on Riverside Drive in Clinton . . . The Wilbur Allens will take the week with all the palm tree trimmings (and what-



ever they serve in Florida instead of sea gull) at Lakeland, Fla., with his parents . . . Ronnie Miskell and his recent bride must be looking for a white and cold Christmas as they selected Chicago for their rendezvous with Santa . . . Tom Keane is off for the week with a trip to his wife's folks in Hancock County as a possibility . . . R. K. Goosie is enjoying a restful vacation in Knoxville with nothing hectic planned (what else is possible in Knoxville?) . . . Nora Hurst and family spent a recent week end with her son in Chattanooga . . . Bob Chittum also is spending a restful vacation in Knoxville cleaning a chimney and hanging up his biggest socks in anticipation of Santa's visit . . . The Leo Browns are celebrating the Yuletide season with a visit from Mrs. Brown's father as their guest from Kansas . . . The E. E. Palmers also are entertaining as Christmas

Continued on Page 6

From *The New York Sun*  
September 21, 1897

We take pleasure in answering at once and thus prominently the communication below, expressing at the same time our gratification that its faithful author is numbered among the friends of *The Sun*:

"Dear Editor:

"I am eight years old. Some of my friends say there is no Santa Claus. Papa says, 'If you see it in *The Sun* it's so.' Please tell me the truth, is there a Santa Claus?"

Virginia O'Hanlon  
115 West 95th St.

Virginia, your little friends are wrong. They have been affected by the skepticism of a skeptical age. They do not believe except what they see. They think that nothing can be which is not comprehensible by their little minds. All minds, Virginia, whether they be men's or children's, are little. In this great universe of ours man is a mere insect, an ant, in his intellect, as compared with the boundless world about him, as measured by the intelligence capable of grasping the whole truth and knowledge.

Yes, Virginia, there is a Santa Claus. He exists as certainly as love and generosity and devotion exist, and you know that they abound and give to your life its highest beauty and joy. Alas, how dreary would be the world if there were no Santa Claus! It would be as dreary as if there were no Virginias. There would be no child-like faith then, no poetry, no romance to make tolerable this existence. We should have no enjoyment, except in sense and sight. The eternal light with which childhood fills the world would be extinguished.

Not believe in Santa Claus! You might as well not believe in fairies! You might get your papa to hire men to watch in all the chimneys on Christmas eve to catch Santa Claus, but even if they did not see Santa Claus coming down, what would that prove? Nobody sees Santa Claus, but that is no sign that there is no Santa Claus. The most real things in the world are those that neither children nor men can see. Did you ever see fairies dancing on the lawn? Of course not, but that's no proof that they are not there. Nobody can conceive or imagine all the



"WANTA BOX?" That's what this husky four-year-old is asking any and all comers. He is A. L. Thomas and is a nephew of Barbara Thomas, of the Y-12 Process Maintenance Department.

wonders that are unseen and unseeable in the world.

You tear apart that baby's rattle and see what makes the noise inside, but there is a veil covering the unseen world which the strongest man, not even the united strength of all the strongest men that ever lived, could tear apart. Only faith, fancy, poetry, love and romance can push aside that curtain and view and picture the supernal beauty and glory beyond. Is it all real? Ah, Virginia, in all this world there is nothing else real and abiding.

No Santa Claus! Thank God! He lives, and he lives forever. A thousand years from now, he will continue to make glad the hearts of childhood."

## ORNL Physics Seminar Meetings Off In Holidays

Because of the Christmas holiday season, the physics division of the Oak Ridge National Laboratory will not hold its weekly physics seminar sessions on Friday of this week, December 26 or on January 2. The seminar meetings will be resumed later in January of next year.

### WAR SWELLS DEBT

The First World War swelled the debt of the United States from \$1,-282,044 on March 31, 1917, to \$26,-596,701,648 on August 31, 1919.



PRINCIPALS IN THE WATSON-BRYANT WEDDING held December 12 are shown here. From left are C. M. West, Y-12 Health Physics Department, who served as best man; Mrs. Lewis C. Watson, the bride and former Miss Geraldine Bryant, of the Property Department; the groom, Lewis C. Watson, General Machine Shop; and Miss Sue Phillippi, maid of honor and daughter of R. S. Phillippi, Sunflower Foundry.



# CAMERAS CATCH Y-12 DIVISION YULE PARTIES



**HIGH JINKS AND HULA HOOPING** were a feature of the Engineering Division's annual Christmas dance held December 12 at the Oak Ridge Labor Hall. Displaying rare form in "hooping" are Fran Willie, left, and I. G. Speas, right, as B. B. Bell judges the contest.



**HAPPY PRIZE WINNERS AT THE ENGINEERING DIVISION** dance are shown above. In the picture at left Mrs. Sam Bishop receives her award from W. E. Heckert as B. B. Bell looks on. At right the pleased recipient is Mrs. G. L. Davis, right, accepting the package from W. E. Heckert while at left is B. B. Bell and Mrs. Heckert.



**A CONGENIAL PARTY AT THE ENGINEERING DIVISION** Christmas Party is shown above. From left are Kay Sideris, Steve Makres, Oak Ridge National Laboratory guest; Mrs. Pappas and Tom Pappas, of the Y-12 Alloy Division.

## Russians Reported Planning AtomPowered Passenger Train

A Hungarian newspaper is quoted by the Associated Press as saying that Russia plans to put a 300 mile-per-hour atomic powered passenger train in service between 1960 and 1965. The paper declares that the Soviet plan is to put the train into regular service between Russia's west and east borders — from Europe to China. The train would make two round trips without refueling and attain a top speed of 312.5 miles per hour, the paper stated.

## IRAN MAKES OIL GRANT

An American oil firm has received a 16,000 kilometer offshore oil concession from the Iran government.

## SCOOPBURGER IS ENTREE ON DECEMBER 30 SPECIAL

The Y-12 Cafeteria will offer its popular scoopburger on bun as the entree for the 50-cent Special Lunch to be served on Tuesday, December 30. The Special Lunch also will include one vegetable, choice of salad or dessert and rolls and butter.



**THIS IS THE CHEMICAL DIVISION COMMITTEE THAT ARRANGED THE ENJOYABLE** divisional dinner dance at the Deane Hill Country Club December 13. From left are Elsie Higgins, Ted Higgins, Bob Schabot, Joe Barkman, Bonnie Duff, Jo Ann Isham, W. K. Whitson, Mabel Tyer, Harry Keen and Chris Schabot.



**HERE IS PART OF THE LARGE NUMBERS OF Y-12ERS IN THE CHEMICAL DIVISION AT THE** divisional Christmas dinner-dance held December 13 at the Deane Hill Country Club.



**ROD CREIGH, LEFT, IS RECEIVING A DOOR PRIZE AT THE LABORATORY DIVISION** Christmas party held December 13, from Joe Wenzler, right, as Daisy Ward looks on in the picture at left. At right Wenzler is either reading his New Year's resolutions or announcing another award winner to the big throng of guests.

## Plastics Company Develops New High-Strength Resin

The Union Carbide Plastics Company has developed a new resin that provides longer service life for high-strength polyethylene pipe. The major strength advantages of this material over conventional first-grade pipe compounds include an increase in initial burst strength and high long-term resistance to stress at room temperature. Because of its high strength, the resin can be extruded into thinner wall pipe, thus reducing the cost of the finished pipe.

## Enterprise System Provides Incentive For Progress

History has shown that the wheels of business and industry have turned faster and faster throughout the years in the United States and all Americans have moved ahead because of the hope for a fair return, a fair reward and a fair profit. No other people in all history have made such rapid and substantial progress as Americans working with the enterprise system—the profit and loss system. The pattern for progress in this country has brought fair profits

for more investment in better tools for greater production in less time for higher living standards.

The operator was about to close the doors of a crowded elevator when a well-dressed but obviously tipsy gent pushed his way in. As the car started up he tried to turn around and face the door, but was so tightly wedged in he couldn't move. The other passengers started at his bleary eyes and finally when the strain became quite painful, the drunk cleared his throat and remarked: "I expect you wonder why I called this meeting."





Continued from Page 4

guests Harold Johnson and family from Marietta, Ga. . . . **Phil Shelley** has plans to go to his grandmother's house in Bristol, Va., where he will enjoy a visit from his parents from up in Pennsylvania. . . . The **Doyle Williams** enjoyed a pre-Christmas get-together at their home in Maryville recently with a number of Mrs. Williams' friends. . . . **Leon Sealf** seems to have opened one of his Christmas packages a little bit early—as he was out with his new shotgun last week pumping lead at Roane County cottontails—says he can't understand why that third shot didn't also bag a bunny.

Mechanical Inspection has a couple of fellows in orbit as new members of the Proud Pop's Club. . . . They are **Dick Dean**, father of a daughter, **Kimberly Sue**, born November 29 and weighing seven pounds. . . . Also **Larry Kirkland**, now father of a girl born December 12, but being on vacation last week no more vital statistics could be obtained. . . . The department is justly proud of raising \$120 for distribution to worthy charities—\$60 going to the Kingswood School, \$30 to the Knox County muscular dystrophy fund and \$30 to the Stone Mountain School at Treadway, Tenn. . . . Congratulations to all these efforts.

#### INDUSTRIAL RELATIONS

Things are going to be really quiet and peaceful around The Bulletin and Recreation Offices for a few days—**Dan Culp** is off to be married to his college sweetheart in Cleveland, Tenn., this week end. . . . Congratulations to a grand guy and what must be a sweet gal—to put up with him.

Now comes news from the Boys in Blue and Gray from The Fire and Guard Departments. . . . **Cap'n Ray Ledford** is back from a spell in the hospital. . . . Guards **T. J. Bush** and **Paul Williams** still are bird hunting. . . . Getting away on vacations without letting **Liz Campbell** know where they were going are Guards **Rosenblum**, **Carver**, **Johnson** and **Ledbetter** (shame on 'em.)

#### MECHANICAL OPERATIONS

Lots of General Machine Shoppers are taking vacations during the Christmas season. . . . Among them are **W. G. Delones**, **W. C. King**, **Floyd Ludwig**, **C. O. Methena**, **G. E. Hileman**, and **Grady Norton** in Knoxville. . . . Staying at home in Oak Ridge are **W. J. Barker**, **L. P. Vines**, **Janice Gore**, **Charley Viar**, **W. A. Rutherford**, **J. Cogswell**, **Hugh Richards**, **H. A. Maney** and **W. C. Collins**. . . . Out of town vacationers include **R. L. McIlwain** and **G. A. Tedder** and **J. N. Greer** in Mississippi with relatives. . . . **J. M. Butts** is visiting kin folks in Birmingham, Ala. . . . **G. L. Tate** is over in Nashville and **Bruceton**. . . . **Charley Brazda** is visiting kin folks in New Orleans. . . . **W. J. Grigsby** is getting around with a trip to Gatlinburg and then to Louisville, Ky., to visit his son for Christmas. . . . **J. P. Dillard** also is visiting his son in King's Mountain, N.C. . . . Closer to home vacationers include **Rhea Hester** and **H. L. Woodward** in Oliver Springs, **J. L. Overton** in Clinton, **Wiley Herrell** at Kingston and **Jim Mills** at Rockwood. . . . Leaving without telling their plans were **G. W. Holcombe**, **D. M. Willey**, **L. E. Cantrell**, **F. E. McKeethan**, **J. R. Belew**, **Max Whitley**, **R. A. Etheridge**, **S. L. Newton**, **Carl E. Holt**, **N. Parrott**, **J. N. Greer**, **D. B. Suttles**, and **H. Dick**. . . . **L. B. Gillis** is moving into his new home in Cumberland Estates during the Christmas holidays. . . . Get well wishes go to

**T. M. Akers**, recovering from surgery. . . . Likewise to the father of **J. C. Maples**, ill in St. Mary's Hospital in Knoxville.

**Tim Watt**, Sunflower Shop reporter, says a lot of his folks are going to stay at home during their Christmas vacations—including **K. S. Whitehouse**, **R. Marcum**, **A. D. Shulte**, **M. Jeffers**, **G. A. Hatmaker**, **C. Allen**, **B. E. Ward** at Petros, **K. W. Silvers**, **H. M. Clayton** at home in Lenoir City, **L. N. Moncier**, **J. R. Neal**, **J. D. Bowling**, **W. L. Kautz**, **C. E. Crowe**, **R. D. Sealf**, **R. Marcum**, **J. F. Russell**, **O. L. Duncan**, **H. M. Freels** and **F. M. Pickering** at Athens, Tenn.

. . . **O. C. Hutchison** is staying close at home expecting a new arrival at the household. . . . **W. E. Cagle** is going to catch up with some work around his house and **G. R. Owen** is going to move into a new home during his vacation. . . . Getting away to far places are **F. L. Teno** to Florida and **W. H. Rollen** to New York. . . . **B. W. McNutt** is going to see one of the Bowl football games—didn't say which. . . . **W. A. Norman** is going to do some hunting. . . . **G. R. Norman** is moving into his new home while vacationing. . . . Those folks on the hill do get around—more reports say **K. S. Lankford** was over at Reelfoot Lake last week. . . . **C. H. Cunningham** visited his mother in Arkansas. . . . **R. P. Russell** went to Texas. . . . **W. L. Blackford** went to Nashville. . . . Condolences are extended to **T. I. Sloan**, whose mother died last week. . . . Also to **L. E. Abrams**, whose mother also was claimed by death recently. . . . Likewise to **W. R. Coates**, who lost his brother last week. . . . Get well wishes go to **D. E. Parten** and **G. E. Hatmaker**. . . . Getting back to vacations, **A. J. Melton** is off getting acquainted with his new heir.

Tool Grinding and Maintenance sends rapid recovery wishes to **C. D. Painter**, **G. C. Lay**, **H. A. Monday** and **J. H. Oldham**. . . . **G. Beeler** is staying around Maryville to "play around with the family" during Christmas.

**J. W. Gorenflo** and **Don Scott** are Florida vacationers from Z Area. . . . **J. T. McMichael** is going down to Mississippi for two weeks and **R. W. Love** is sticking close to home in Harriman. . . . **Jim Whitten** is going to Birmingham for the holidays. . . . A cordial welcome was extended last week to **H. B. Leffler**, **W. S. Helms**, **J. M. DeForest**, **G. W. Lankford**, **J. L. Williams**, **J. S. Drummond**, **G. E. Hileman**, **H. O. Caughorn**, **D. W. Garland**, **E. T. Henry**, **O. Loyd**, and **M. H. Colson**.

**Don Woodward**, Forming, and family have gone to Illinois for the holidays, where they will have their new daughter, **Laura**, christened. . . . **Ray Sanders** and his wife are holidaying in Florida. . . . **Walt Williams** will welcome the New Year in down Florida way.

#### MAINTENANCE

**B. C. Harrington**, Research Services, is visiting his new grandson in Denver, Col. . . . **P. W. Cofer** is visiting kin folks in Chattanooga. . . . **H. K. Bailey** and **E. S. Hardy** are Alabama vacationers. . . . **R. B. Coulter** went to Dayton, Tenn. . . . **C. L. Gossage** is headed for Jacksonville, Fla., and the Gator Bowl. . . . **O. D. Matlock** may do some traveling, but doesn't know just where, at press time. . . . Home vacationers to welcome Santa at their own firesides are **C. C. St. John**, **Charlotte Smith**, **R. H. Clary**, **I. E. Robinette**, **F. H. DeFore**, **E. S. Lewis**, **R. C. Jones**, **F. W. Sutton**, **Lonnie Slover**, **B. P. Hapgood**, **F. L. Holland**, **F. Irwin**,

**J. B. Farmer**, **H. L. Huff** and **A. Cleveland**.

Mechanical Maintenance folks and many other friends of **Helen Sisson** send their deepest sympathy to her. Her husband died December 13 after a long illness—Helen for a long time was a valued reporter for The Bulletin and this desk joins in extending its condolences. . . . **M. J. Talley** plans to do some deer hunting down Mississippi way with his father and brother during Christmas week. . . . The department is glad to have **J. F. Hood** in the group—he came from the Oak Ridge Gaseous Diffusion Plant. . . . Get well wishes are sent to **B. F. Nicely**, **J. B. Dodd**, **J. P. Tilley** and **J. F. Baker**, the latter hurt in an automobile accident.

#### SHIFT SUPERINTENDENTS AND UTILITIES

**Del Bender**, C Shift Superintendent, is vacationing up in Gary, Ind.

That old football fan, **A. H. Norman**, of the Steam Plant, is taking a two-week vacation in Florida to take in both the Gator and Orange Bowl games—lucky guy. . . . **R. P. Mann** is sticking closer to home—vacationing in West Tennessee.

**Pat Blanton**, Utilities, is visiting her brother in Norfolk, Va. . . . Getting away to unknown destinations on vacation are **E. B. Cox**, **A. M. Foster**, **J. A. Woods**, **C. D. Langley** and **L. Walker**.

#### CHEMICAL

Holiday season vacationers from Product Processing are **Margaret Hickey**, **F. M. Tench**, **Dennie Roberts**, **Pat Hair**, **C. B. Tiller**, **Hugh Nichols** and **Frank Thurman**. . . . Condolences are extended **Jeanette McCown**, whose uncle died recently. . . . Likewise to **Bill Cook**, whose sister-in-law also died recently. . . . Rapid recovery wishes go to **Paul Pennington**, who underwent surgery at Loudon County Hospital December 17. . . . Also to the brother of **Matty May**. . . . College kids home for the holidays are **Dot**, daughter of **Myrtle Leach**; **Barbara**, daughter of **Wilma West**; and **Tom** and **Bob**, sons of **Liz** and **Fuzz Harris**, he's in Research Services.

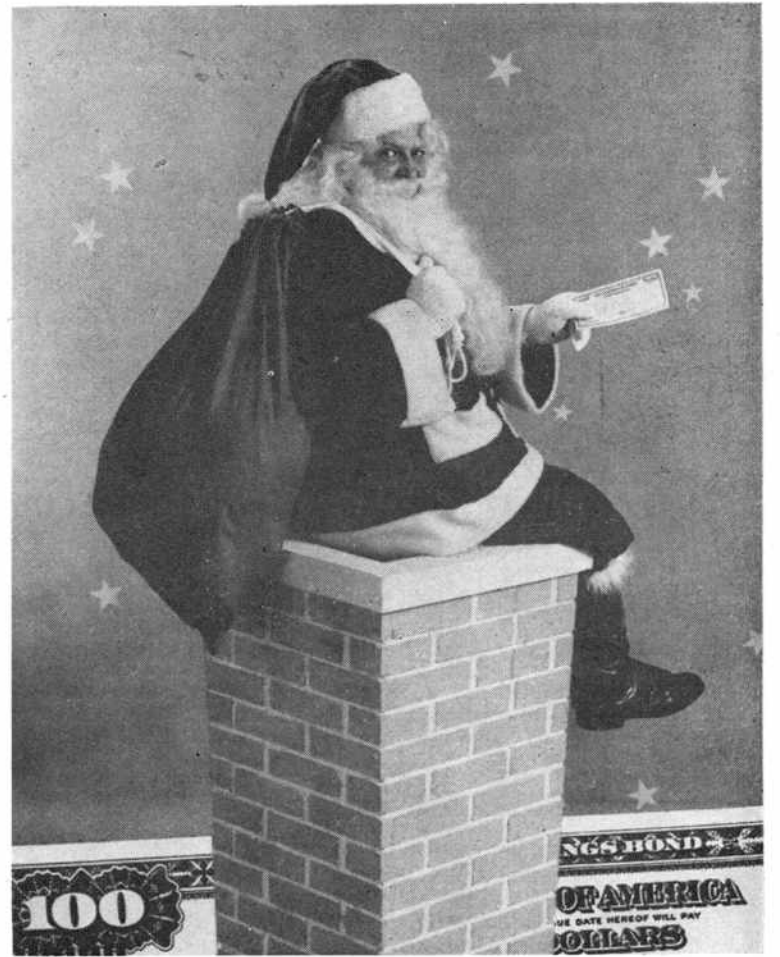
#### FINANCE AND MATERIALS

**Violet Sanford**, Materials, is back from a pleasant vacation in Roanoke, Va., where she visited relatives. . . . **Edith Cruze** will spend her Christmas vacation at home in Knoxville.

Now, if everyone will let me sleep for 24 hours, the Colyum repeats its Page Two wishes of a happy holiday season—particularly for a fine 1959.

#### TALLEST CHIMNEY BUILT

The tallest chimney in Australia will be a 500-foot stack now being built at the Mt. Isa copper smelter.



WHAT COULD BE A BETTER GIFT FROM SANTA CLAUS than the United States Series E Savings bonds he is shown carrying here? They also are fine gifts any season of the year.

## Bigger Cities Have Less Accidental Death Threat Than Nation As Whole, Figures Say

Accidents are not as great a threat to the lives of residents of the large United States cities as they are to the population of the country as a whole. This is set forth in a study by the Metropolitan Life Insurance Company's statisticians of accident mortality in the 41 United States cities which had 250,000 or more inhabitants at the time of the 1950 census.

Accident death rates for residents of these cities averaged 49.2 per 100,000 in 1955-56 as compared with 56.8 for the population of the United States as a whole. Of the 41 cities under review, 32 had rates below the national average. In spite of this, it is pointed out, residents of the large cities suffer a heavy loss of life from accidents, each year about 18,000 of them being fatally injured in mishaps of one kind or other.

#### Big City Rates Vary

The accident death rate in 1955-56 in the large cities ranged from a low of 37.8 per 100,000 for Jersey City to a high of 77.7 for Indianapolis. The five cities with 1,000,000 or more inhabitants in 1950—New York, Chicago, Los Angeles, Philadelphia, and Detroit—as a group experienced a lower rate than did groups composed of the cities with populations in various ranges under 1,000,000.

New York, Chicago, and Detroit had particularly favorable records.

The more favorable accident mortality for residents of the large cities than for the country as a whole is accounted for largely by their motor vehicle accident mortality, the statisticians point out. For the 41 cities as a group, the motor vehicle accident death rate was about 30 per cent below the national average.

Comparable data on the various types of accidents other than motor vehicle are not available for most of the large cities, it is noted, although information from some of them indicates that falls rang high among the causes of accidental death, and that fires, drownings, and poisonings by solids, liquids, or gas also figure prominently in the total.

"The variation in accident mor-

#### TIP FOR SAFETY—HUMAN BODY IMPORTANT MACHINE

Here's some good advice about safety from J. E. Trainer, of the Firestone Tire and Rubber Co. "You can always remember that in safety you protect, not a camera, but the human eye; not a pump, but the human heart; not a compressor, but the human lung; not oil and grease, but human blood. You protect the most important machine in the world—the human body."

### Y-12ers With 15, 10 Years Company Service

Congratulations to the following Y-12 employees who will complete 15 years of Company Service before the end of the year:

#### 15 YEARS

**Arch H. Shubert**, Utilities, December 23.

**Harold W. Ditchen**, Research Services, December 23.

**Asa H. Tarwater**, SS Control, December 27.

**Claude H. Walker**, Stores, December 27.

**Wiley Cook**, Process Maintenance, December 28.

**Howard M. Burnett**, Coalex Auxiliary Operations, December 29.

**Lennie R. Nicely**, Product Processing, December 30.

tality from city to city reflects a number of factors," the statisticians explain. "Among these are difference in the age composition of the population, type of housing, proximity to large bodies of water, type of industries, the amount of driving the residents do, and the effectiveness of community safety programs."





TWO FINE TEAMS IN THE C BOWLING LEAGUE OF Y-12 PINMEN are pictured above. At left is Murderer's Row, the bowlers being J. B. Peters, J. C. Booher,



W. J. Goodwin, J. E. Morgan, H. B. Oliver and J. C. Bryan. At right is the Chillers, members being Al Lisher, C. E. Tilley, J. A. Whitten, C. Morgan and Steve Pintur.

## Lucky Five Captures First Half Crown With Fast Finishing Spurt In Bush Loop

The Lucky Five took first half of the season honors in the Bush League of Y-12 keggers last week by turning in a three-point victory over the Snpft outfit. Bldg. 9212, which led the league for some time but fell into a recent slump, finished in second place although taking a three-point defeat at the hands of the Hi Balls. The only whitewash win of the session was posted by the Bees over the Nine Pins and in the other match the Beavers and Inspectors broke even.

The Lucky Five squad is composed of Ed Del Grande, H. P. Landry, C. K. Morris, J. F. Forrester, R. C. McKnight, Jim England, Wayne Silver and Tom Hillard. The team didn't get away to a particularly good start, but rallied toward the end of the period to take charge.

The Inspectors, individually and as a team, monopolized scoring honors. The team swept the score sheet with an 890 scratch and 1059 handicap game, 2207 scratch and 2770 handicap series. Cantrell rolled the highest single scratch game of the half for the Inspectors with a sizzling 269, boosted to 291 with handicap. Sahr, a teammate, bagged a 541 scratch and 599 handicap series.

League standing at the end of the first half of the season follows:

Team	W	L
Lucky Five	37	19
Bldg. 9212	31	25
Inspectors	30	26
Bees	29	27
Beavers	28	28
Nine Pins	24	32
Hi Balls	23	33
Snpft	22	34

## Y-12 Quints Lead Basketball League

The Comets and Reactors, both Y-12 entries in the UCNC Two-Plant Basketball loop were tied for the loop lead after last week's play. The Comets, aided by 12 points from Forrester, edged the Oak Ridge Gaseous Diffusion Plant's Pilot Plant quintet by 42 to 40. The Reactors topped the ORGDP All Stars by 41 to 35 with Taylor getting a dozen counters. The ORGDP Lab Demons poured it on the Hawks by 72 to 21 and the All Stars got a forfeit from the D Ramblers.

League standing follows:

Team	W	L
Comets	2	0
Reactors	2	0
Lab Demons	1	1
All Stars	1	1
Pilot Plant	0	1
Hawks	0	1
D Ramblers	0	1

## Tight Tilts Staged In Volleyball Loop

Some tight tilts were played in the UCNC Two-Plant Volleyball Loop last week and when festivities were concluded the ORGDP All Stars were to top of the standings. The Eagles took three games from MIT 15-8, 15-2 and 8-15. Two Y-12 teams, the Hawks and Beavers, really had a tussle with the Hawks winning by 15-1, 16-18 and 15-10. The Eagles grabbed the decision from the Y-12 Punks 15-2, 12-15 and 15-6.

League standing follows:

Team	W	L
A Shift	3	0
Eagles	7	2
MIT	4	2
Beavers	3	3
Process Engineering	3	3
Hunters	2	4
Punks	1	5
C Shift	1	5

## LINE NAMES OFFICIALS

The Linde Company, Division of Union Carbide Corporation, has appointed Leo I. Dana President-Technology, and David Swan Vice President, Research.

**Safety COULD BE NATIONAL**

**SAFETY**

*if you'd make it LOCALLY!*

## Engineers Maintain Lead In C League

The Engineers held on to their lead in the C League last week by dropping the Dry Hides for three points and a deadlock for second place resulted when the Goof Balls whitewashed the Knot Heads and the Sunflowers grabbed three from the T Squares. Three-point wins also were posted by the Daffodils over the Chillers, Murderer's Row over B Shift and Wacos over the Alley Cats.

Galford, Sunflowers, was high scratch scorer of the session with a 223 game and 598 series. Speas, Engineers, bagged a 250 handicap game and Cabe, of the same team, a 647 handicap series for best of the night. In team scoring, the Sunflowers had an 870 scratch game, boosted to 1017 with handicap, and a 2460 scratch series. The Engineers posted a 2912 handicap series.

League standing follows:

Team	W	L
Engineers	11	1
Sunflowers	9	3
Goof Balls	9	3
Alley Cats	7	5
Daffodils	7	5
Murderer's Row	6	6
Wacos	6	6
B Shift	5	7
Dry Hides	4	8
Chillers	3	9
Knot Heads	2	10

## Fat, Sassy Fowls Predicted In State

"Migrating waterfowl that select East Tennessee as their winter home should become fat and sassy," according to Bill Yambert, principal waterfowl biologist for the State Game and Fish Commission. With more than 2,200 acres of farmland planted with such succulent duck and goose foods as corn, wheat, millet and milo to greet them, the feathered winter visitors should feel welcome indeed.

According to Yambert, Hiwassee Island Refuge, which last season attracted some 15,000 geese and numerous ducks, has 300 acres planted in waterfowl foods. Paint Rock Refuge, which last year offered food and protection to some 700 geese, is waiting for this season's arrivals with nearly 100 acres under cultivation.

The new Henderson Island Refuge on Douglas Lake is ready with 39 acres of waterfowl plantings.

Outside the refuges, 500 acres of public shooting area lands is being cultivated. In addition more than 1,300 acres of farmland, owned by the TVA and leased to the Commission, has been planted by area farmers under a cooperative agreement. Under the cooperative agreement the farmer must leave standing a certain percentage of the crops sown.

With this year's record planting of waterfowl crops in East Tennessee beginning to mature, Yambert also stated that in addition to being the largest amount of food ever planted for the benefit of waterfowl in this section, the yield per acre should exceed that of previous years. A recent survey of the plantings reveals that bumper crops may be expected on all of the areas.

Memo for desk plaque — "Look alive, remember, you can be replaced by a button."

Security hinges on your moves.



DON PITT, GENERAL MACHINE SHOP,

proudly poses with the 207-pound buck he killed on a hunting safari in Frederick County, Maryland, while vacationing recently. The buck was a seven-pointer.

## Clippers Capture First Half Crown

The Clippers grabbed first half of the season honors in the Mixed League with ease last week, winding up with a three-point win from the Phantoms. Similar wins were recorded by the Alley Cats over the Pin Plasters and Rockets over the ABCs while the Nip and Tucks took three and one-half from the Scrappers.

Mary Scott, Slippers, swept the score sheets on the distaff side with 176, 225, 451 and 578 scores. Harold Ratjen, Phantoms, has a 210 scratch and 242 handicap game while E. Scott, Nip and Tucks, rolled a 524 scratch and 632 handicap game.

League standing at the end of the first half of the season follows:

Team	W	L
Clippers	41½	14½
Alley Cats	37	19
Nip and Tucks	33	23
Rockets	27	27
Phantoms	26	30
Scrappers	22½	33½
Pin Plasters	18½	37½
ABCs	17½	38½

## Rippers Step Out To Lead In Classic

### Wolves Grab Second Place In Close Race

The Rippers stepped out in front in the Classic League last week by twisting the tails of the Tigers for three points. The Wolves jumped into second with a similar win over the Bumpers and close behind were the Sportsmen with a three-pointer from the Smelters. In other matches three-point wins also were posted by the Markers over the Screwballs, Wasps over the Has Beens, Swingsters over the Rebels and Eight Balls over the Playboys. The Cubs and All Stars broke even at two points each.

Hubert Tripp, Rippers, had a 245 scratch game for tops and other leading scorers were F. C. Clabough, Wasps, with a 263 handicap game, Walt Goodman, Screwballs, 608 scratch series and J. E. Bartholomew, Markers, 673 handicap series. The Wasps got most of the team scoring honors with an 896 scratch and 1032 handicap game and 3035 handicap series. The Wolves had the best scratch series of 2677.

League standing follows:

Team	W	L
Rippers	32	20
Wolves	31½	20½
Sportsmen	30½	21½
Bumpers	30	22
Markers	29	23
Smelters	28	24
Rebels	28	24
Has Beens	27	25
Wasps	26½	25½
Tigers	25	27
Screwballs	25	27
Swingsters	25	27
Cubs	22	30
Playboys	20½	31½
All Stars	19	33
Eight Balls	19	33

## Growth Of Small Business Big Since World War II

Scare talk about the plight of small business in the United States has done little to dampen the spirit of enterprise in the country. Some 4,249,000 firms, each employing less than 1,000 employees, now are in operation, a gain of 41 per cent since World War II. Of these, 4,074,000 are small businesses, employer fewer than 20 persons.

Firms employing more than 1,000 workers have increased in number, too, from about 2,900 to 3,500 in that same period. The 600 new firms in this category are primarily graduates from the small business list, as a logical consequence of the amazing growth of the whole American economy.

## IT WON'T BE LONG NOW

A British atomic scientist declared recently in Barrow-in-Furness, England, that great steps are being made toward nuclear propulsion for ships.



THREE FINE CONTENTERS IN THE Y-12 ANNUAL FISHING CONTEST AND THEIR CAPTORS are shown above. At left is J. E. Thompson, Jr., Alpha Five, with a fine and fat smallmouth bass caught from Ft. Loudoun Lake. In the middle panel R. P. George, Electrical Engineering, is holding a nice striped bass he took from Norris Lake. At right is the husky walleyed pike caught by C. M. Cheek, Sunflower Foundry.



Bulk Rate  
U. S. Postage  
**PAID**  
Oak Ridge, Tenn.  
Permit No. 71

**UNION CARBIDE  
NUCLEAR COMPANY**  
Division of  
**Union Carbide Corporation**  
Post Office Box Y  
Oak Ridge, Tenn.

RETURN POSTAGE GUARANTEED

POSTMASTER: DO NOT FORWARD. IF ADDRESSEE HAS MOVED,  
RETURN TO SENDER IMMEDIATELY.



HERE'S ONE OF THE TELETYPED CHRISTMAS CARDS sent out by Union Carbide Corporation each holiday season to many of its far-flung installations.

## Union Carbide Teletype Machines Extend Christmas Greetings To Installations

Over a complex network of privately leased telegraph lines, Union Carbide Corporation keeps in constant touch with its near and far flung installations. At the rate of 450 characters a minute, messages pour in and out of the Corporation's New York teletype center in a steady stream.

But on two days of each year some of these messages are startlingly different. The days — December 23 and 24. The unusual messages — Christmas Cards by teletype.

### Going On For Years

On these two days UCC teletype machines pound out the season's greetings to and from our offices, plants, laboratories and warehouses all over the country, whenever a line is free. It's a little known custom that's been going on for years.

The operation itself is far from a simple one. It requires the spare time effort of UCC teletype operators for as long as five days before the December 23 zero hour.

### Artwork Is Mapped

The desired greeting and artwork must be carefully mapped out beforehand on a master chart. The areas where the teletypewriter keys must strike have to be plotted exactly — and the proper number of spaces precisely noted. This spacing information must

then be transferred to a perforated tape. When this tape is run through the teletypewriter, the perforations are translated into unique Christmas greetings on a message blank hundreds—perhaps thousands—of miles away.

These teletyped Christmas Cards vary in design and complexity from a simple, marvelously clear wreath and candle to an intricate Santa, sleigh, and reindeer outlined against a city's skyline.

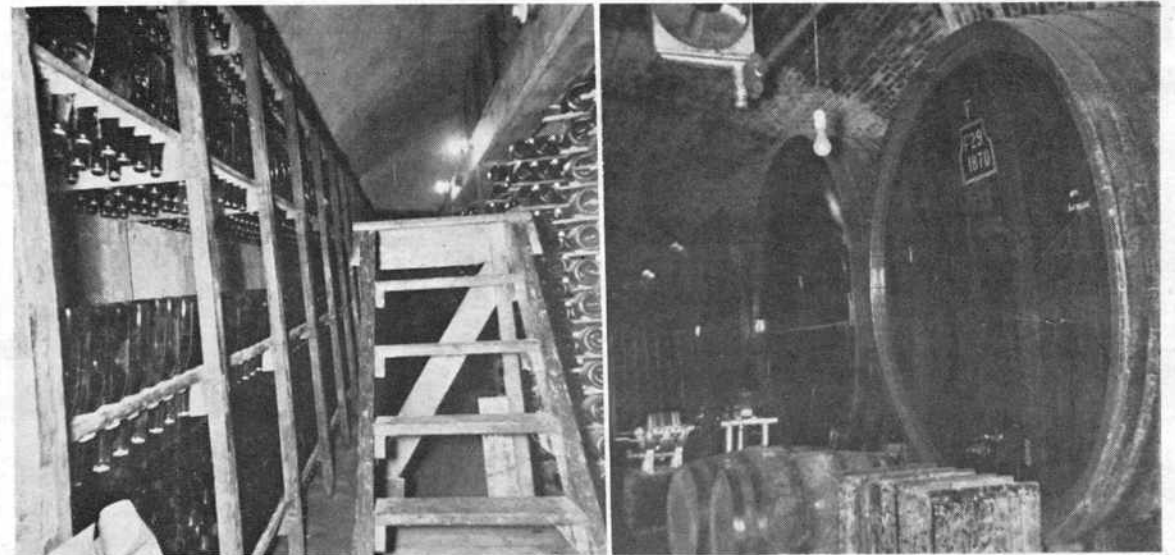
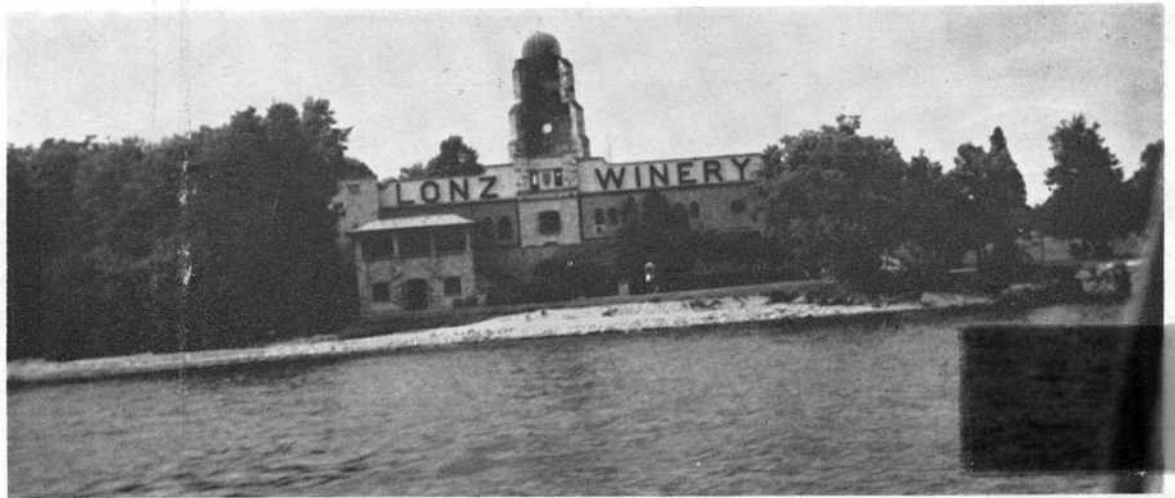
As an added twist this Christmas, some teletypewriters will chime out a familiar melody. Several installations have cut tape to permit their machines signal bell to ring out a tuneful "Jingle Bells."

### ONE JUSTICE IMPEACHED

Only one justice of the United States Supreme Court has ever been impeached. He was Samuel Chase, who was charged in 1804 with malfeasance in office. However, he was acquitted by the Senate and resumed his seat.



"PLEASE, DAD, DO SOMETHING BEFORE SANTA CLAUS COMES!"



Y-12ER CARL G. BREWSTER, MEDICAL, BROUGHT BACK THESE FINE SNAPSHOTS of the famous Lonz Winery, on Middle Bass Island, Ohio, in Lake Erie. The top view is a scene from the lake approaching the establishment. At bottom left is the cellar of the winery with bottles of wine on the racks at right being aged and, on the left, being placed in turning racks. The giant white oak casks in which wine is aged are shown at right, the large containers holding 3,810 gallons each while the smaller casks at lower left hold only 50 gallons.

## Ohio Winery Visited By Y-12er Who Finds Island And Processing Interesting Sights

**Lonz Establishment Once Was Largest In U.S.; Rich Land Nourishes Grape Growing For Wine**

One of the best-known—and at one time the largest—wineries in the United States was visited by a Y-12er last summer while on a trip to Ohio. Bringing back some interesting facts and pictures of the Lonz Winery on Middle Bass Island, in Lake Erie near Sandusky was Carl G. Brewster, of the Y-12 Medical Department.

Middle Bass Island is one of an archipelago of islands in Lake Erie. The explorer, Father Hennepin, is supposed to have named the island Ile de Fleurs when he sailed past it in 1679—and had he been a better prophet he probably would have called it Isle of Grapes.

### All Work For Winery

Around 1854 the limestone rock substrata and rich earth of Middle Bass Island inspired wine-loving Rhinelanders, who settled the island, to plant and nourish a network of dark clinging grape vines, with every farmer there now working for bumper crops to go directly to the Lonz Winery.

The winery was founded by Andre Wehrle and the cellars were built in 1862. The giant 3,810-gallon white oak casks were first installed and the walls built around them. The present capacity of the establishment is about 150,000 gallons per year—but in 1870 it was the largest winery in the United States with a capacity of about 500,000 gallons and representing an investment of nearly \$1,000,000.

### Third Generation Owns Place

George Lonz is the third generation of the family to own and operate the winery. The first Lonz worked for Wehrle in the wine rooms and later bought the place from the founder.

Middle Bass Island is approximately 720 acres in size and its only industry is wine making. The

grapes are grown on the island, pressed there, the wine fermented, bottled, labeled and shipped. All fermentation is natural from the wine grapes used.

The champagne and sparkling Burgandy wines are fermented by the original French method in the bottle. Every bottle is handled about 150 times. The other wines are fermented and aged in white oak casks.

### Fermented For Four Years

The champagnes are bottled and stored in racks—see accompanying pictures — to ferment for four years. Afterward the bottles are placed in other racks with necks down so that sediment can settle out. Then the bottles are turned one-quarter turn daily for 40 days to aid in settling the sediment in the neck of the bottle.

The next step is to freeze the wine and sediment in the neck of the bottle to about 30 degrees below zero, Fahrenheit, and the sediment taken off. The bottle then is corked, the corks wired down to prepare for shipment. Each bottle is polished by hand and labeled before shipment.

The Lonz Winery is visited annually by thousands of tourists and others — some who come to see the unique operations and others to purchase some of the products of the establishment. The architecture of the main building, the massive construction of the cellars and the vineyards all attract attention—as does a view of Lake Erie from the porch while visitors sip a cooling glass of wine.



## Bakelite Name Changed To UCC Plastics Co.

**Corporate Identity Linked To Products**

The Bakelite Company, a Division of Union Carbide Corporation, will become the Union Carbide Plastics Company on November 15. The change in the name of the firm is another step in the program initiated last year by the Corporation to cement corporate identity with its broad range of products. The Plastics Company will continue to produce and sell a full line of products under the familiar Bakelite and other well-known trademarks.

In addition to the name change, a sales organization keyed to customer service also was announced. The new sales structure includes the establishing of six regional sales managerships. Planning and specialized marketing functions such as new product and process development, market development, advertising and promotion have been separated from the selling and technical service activities.

### BIGGEST BOOK STORE

The world's largest book store is Folye's, in London, England. It has about 4,500,000 books on its shelves and has about 500 employees.